The Beginning of a High Level Spec. for one User Friendly, Privacy Secure "Sitizen Booth" (CB) and Description of a Paradigm shift

(2024-09-24 Translated from Swedish to English with https://www.onlinedoctranslator.com/en/. A lot remains to correct).

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1 Introduction

Below, it is proven that it is possible with technology that is as user-friendly and secure as personal service by a personal agent.

Many countries and companies want to control and map all individuals.

All individuals must have the right to avoid renounces integrity to access community services.
Therefore, it is important that it exist alternative for those who guard their Freedom and Integrity.

There should also be a user friendly solution so people don't have to learn how to use poorly designed devices and solutions. No more education and knowledge should be needed to use tomorrow's technology than was the case before.
It should be at least as easy as it was before when you went to a bank branch and received personal help.
A user should not have to understand the technology they are using.
(Anyone who wants to drink a glass of water does not need to know anything about how water distribution works.)

The technology should free up time and resources for the user so that the user can freely choose what they want to do.
You should not have to buy new expensive products every time the commercial companies decide.
(It's also not good for the environment).

The reason for digital exclusion is not the fault of the users but those who created bad products.

With the help of "Citizen Booth" it will again be possible to have many unmanned "Bank offices"/"Service points" in sparsely populated areas.

2 "Citizen Booth" (CB) (or Citizen Terminal or Citizen Box)

By piecing together already existing technology such as card-reader, scanner, mouse, keyboard, display, microphone, speaker, camera, voice recognition, face recognition, fingerprint reader,... etc... it will be possible to design unmanned Banks/Citizen Booths that can be developed and using AI to understand what the customer wants.
They can, for example, be placed at society's service centers where the customer can access with help of an Identification to do different social affairs and banking affairs. The banks can cooperate with the Society.

"Work Space" in Ueno Railway station in Tokyo, Japan. (Photo: Johan Eneland)

The system can be trained with AI so that the function becomes easier and more secure than personal service.

Interface: For example voice, mouse, keyboard, scanner, microphone, speaker, mouse pointer, monitor, camera, printer,

The user can choose language, voice or keyboard, mouse etc,….

CB can be placed for example at Service-office, Library, elderly homes, reailway stations,, department stores… and in sparsely populated areas,...

It might be possible to connect to an actor, for example (Bank) for manual service.

2.1 Absolute Requirements

From the user's point of view:
100% independent from abroad.
100% independent of commercial companies.
No 3rd party actors involved.

Not possible to manipulate.

2.2 Top level requirements

The CT should be so easy to use so the user do not need to know how the technology works.

The services must be100% independent of foreign and commercial companies. (**Integrity**).

3 Security

The user ”shows” the ID to open the door to the "booth"and enter. After the door is closed "show" ID again. Sensors keep track of whether the door is kept closed at all times.
As in automatic passport controls identify with biometrics built into the ID-card.
The ID must be 100% independent of foreign countries and commercial companies.

Place the CB where it is a certain overview but it is not possible to see what the individual is doing in the box/booth.
For example, receptions for public ...

Secure login (100% independent of foreign countries and commercial companies)
The ID card should have biometric data so it is shure that it is the right person.

For example, an ID card with biometric data opens the door when the door is locked, it is checked that only 1 individual entered and biometric data is checked (face + fingerprint), the individual gets access to all their accounts.....

Possibly configure the FW so it is only possible to reach white-listed sites.

As security against possible fraud make it possible for the user to set up so it is only possible to access Banks and other sites from a SB.

Those that are afraid of being robbed/deceived in the home can make use of CB as the only alternative as a CB is always located in a safe place and the user is alone in it.

+ Security if always use a CB it will be less risk of home invasion under threat.
+ Security if customers only use MT, they cannot be threatened at home to log in.
+ The user view bio data after door locked so no one else can inerfere.
+Telephone fraud is made impossible if the user for example set up at the Bank that everything must be done from an CB.

If any person is allowed to follows into the "booth" both must show ID and controlled that the helper is allowed to help.

Mer sure than to have help from any person who can bedishonest.
Eg relative, trustee,or healthcare staff or legal representative,...

With help of AI you the system can recognize fraudulent behavior. (Log if fraud occurs/occurred.)

The software should be OS (Open Source) so that no Trojan Horses are present.
Security algorithm can monitor SW and HW and check that they are not tampered with.

Voice recognition can increase security.

The CBs are conveniently placed where there is some type of view without anyone being able to see what the user is doing.

As the user authenticates to enter, it should be little risk of damage of the CB.

Possibly use "VPN"/Firewall so only possible to connect to trusted (Whitelisted) sites.
(You can have limited whitelists/user.)

When the system has been sufficiently trained it can be safer than manual operation.

It should only be possible to connection to the in the FW whitelisted sites.

It must be a reliable backup solution in times of crisis. For example if problems with the Internet and mobile telephony.

For Security and Robustness in case of cyber attacks have a separate network between CB and Servers.

3.1 ID /E-leg

Every individual must have the right to use an ID (IDentification) that is 100% independent of foreign countries and commercial companies.
(Otherwise, the individual is not free. If the Individual is not free, the People are not free either.)

Biodata should be stored in the chip/card:
+ works offline
+ the user knows when and in which context it is used
(It should only be possible to check against a Central Data Base if/when the user uses the card/chip.)
- Facial recognition without consent of the Individual: Every dictator's dream.

In the future the ID card can be integrated with driving licence, E-leg, public transport card, E-currency,etc,…
An ID with biometrics integrated with payment card means that you can check that the right person pays with the card automatically.
(+The user do not need you remember any code,
+the card can not be used by unauthorized persons).

4 Benefits with CB

+ **Integrity** can be made so that it is at the highest level.

+ Nobody has to own anything if they don't want to.
  + Good for the environment.

+ A trained system (with help of AI) will be more secure than personal service because different individuals may be different careless or honest.

+ Cheap unmanned banking services/offices is possible in small towns. (Serial-produced modules.)

+ A CB can be used for all banks and other services that requires identification.

+ All digital community services such as contacts with authorities, Municipalities, tax-authorities...etc.

+ No Digital Exclusion because simple to use user interface.

+ The user does not need to know anything about technology or programming.
  Those who believe that everyone must know programming, etc. have not understood that the purpose of technology is to free up time and resources for those who rather want to learn and do something else.
  Only a few programmers can create user interfaces that are so simple that ordinary people can use it without own knowledge in the field.
  Those who use CB need to know as little about the technology behind as a person using a water tap needs to know anything about how the technology behind it works as pumps, pipes, water purification, etc.

  Its better and more efficient to let a few competent people develops good products than everyone should be forced to waste time on same training to be able to handle bad products (user unfriendly).
(Adapt Technology to people and let people freely decide for themselves what they want to do and learn.)

+ CB reduces digital exclusion.

+ Privacy of the individual can be protected.

+The user does not need to own anything more than his ID card/E-leg.
(Possibly only own its Biometric Data – but then it must be connected to the central biometric database.)
+ Sharing economy + no one needs to own anything except their E-leg +Save natural resources.
+ No one has to subscribe to anything if they don't want to. (+ Save money.)

+ Easily to set the desired language.

+ Blind or people with poor eyesight can use a CB.

+ People don't need to buy their own devices or pay for their own subscriptions, but several people can share the resources which is good for the environment.

+ The system can be updated to more functions as time goes by.

+ With help of "Citizen Booths" (CB) it will again be possible to have many unmanned "Bank offices" or Service points in sparsely populated areas.

+ The user interface can eventually develop and be used in other places, e.g in the home for those who have own equipment.
+ The interface can be developed into a home terminal/computer/apparatus.

+ A lead in this area can provide future exports.

+ It will be possible to quickly set up more CBs as needed, season, disasters,...

+ A printer can print tickets, vaccination certificates, receipts… (and/or also be able to send as an E-mail.)

+ Good for the environment because less raw materials and energy is needed because people are not forced to consume,…
(Less scrap metal and batteries from used smartphones and other deviceses.)

+ More stable system because fewer parties involved
+ Can be resistant to power outages for consumers/users.
+ Higher resistance against cyber attacks.

+ Printer, e.g. print out wax certificates, tickets,...

+ Camera => e.g when contact with doctor,etc…..

+ Higher resistance to internet attacks/cyber attack as no "unnecessary" parties are involved.

+ If the individual is biometrically verified and it is verified that the individual is alone in the booth it will be possible to have **voting** without anyone being able to influence.

+ Voice interface.

+ Possibility to connect for manual operation.

+ The security is managed by professionals unlike when people use own devices.
+ Higher restence against IT-attacs than private equipment in the home.

+ Good for the Environment with sharing products.

+ Open around the clock => high utilization rate margin in case of demand peaks.

+ Those who want to live a minimaltistical life without compulsion and stress from a lot of devices.

5 User Example

All types of Banking Services, Social Services and other where you should provide identification.

Banking matters such as moving money between different accounts and Banks.

Scan the invoice/paymentbill and pay.

Pay to a friend or other private person.

Account for and activate a payment (if any residual tax) from your bank account to the government.

Video link to contacts with authorities: The individual has identified him/herself and is alone in the booth.

Do all kind of banking matters with banks. Eg Stock trading,...

Common Internet matters where you need to identify yourself.

Contacts with various authorities and business where you have to identify yourself.

Digital elections: only an individual who has registered in the voting booth.

Anyone who can identify themselves can use the CB as a normal computer if there is noone with higher priority. (Like an Internet Cafe.)

Remote contact (video and audio) with service personat, for example, an authority or bank where you are registered and can get personal help. (The user is authenticated and sits in a closed space.)

Net doctor, (access to video directly). Face-2-face with authorities, Banks,….etc…

+ Buy a ticket and reserve a seat. (flights, trains or boats,...)

+ Renew passport, national ID card,…

+ No staff dependence of any staff so have high capacity, can be open around the clock.

5.1 Election - eg people with poor sight (and others entitled to vote)

The user uses his ID card to open the door to the MT.
An ID card with biometric data should be sufficient as a ”voting card”.

When the door is closed, the user authenticates with biometric data.
The user can select voice control (and language if needed).
Then the voter conducts an oral dialogue with the CB.

Integrity is protected by the user being alone in the booth so noone knows or can influence anything.
The integrity shall be protected so that the CB not is tampered and will be more secure than someone voting from their own equipment or in a room where someone else can check what you vote for.

5.2 Fraud Protection (for example against Phone Scams)

Those who want extra protection against e.g. phone fraud can make a setting with e.g. the Bank that they only can carry out their business if checked in in a CB.

Telefraud is prevented (and domestic assault).
+ Security - no fraudsters can check in because biometric data linked to ID-card.
+ Phone fraud not possible if set up with, for example, banks so only connect from an CB where a customer checked in with an ID-card with biometric data.

1. An ID with bio data is needed to enter (alone) in an CB.
2. When the door to the booth is closed and the user is alone, their biometric data is verified again.
3. Now you can connect to the services you want.

5.3 Cash transfer

+ Enter cash (notes or coins) and pay bills for those who only can pay in cash.
+ The bill is scanned.
Cash may exist as credit on the ID-card.

5.4 Doctor's visit

The booth should have privacy protection and the possibility to "lock" the door.

6 Example of Service/Company/Authorities

Tax Agency, employment agency, misc. Authorities, banks, Digital Mailbox, order vaccination time, renew ID card, Passport,..
Insurance companies and pension companies.
…Public Internet,... no limit exists,....

7 Financing

7.1 Development

For example authorities, banks and universities and so on can cooperate with the development.

A prominent Government and Minister for Digitization could announce a competition with a reward for whoever comes up with the best solution, (Eg among Colleges and Universities,...).

Once there is a Demonstration prototype for the human interface, all that remains is only programming of Interface to the various services to be done.
When the development is well started, it should be able to run on its own.
Different actors can program the interface to their own servers/services.

7.2 Operating costs:

The costs can be distributed among the institutions that are using it.

For some services the user may have to pay because the user avoids the cost of own equipment.
Possibly, if resources are available, it can be used as a normal surf computer for a fee.

8 Paradigm Shift

The seed of a Paradigm shift is sown !

Calling it a Paradigm Shift is relevant.
It can be sour for some to understand that something will be the opposite how it was previous (or now).

Technology should be so easy to use that the user does not need to know how the technology works.

The wheel > 1000 years.
The bicycke 100 years.
The smartphone >30 years.
The first version of what we'd consider a smartphone was invented in 1992 by IBM.
https://www.cellularsales.com/blog/a-mostly-quick-history-of-smartphones/
Old technology lives on and develops.

8.1 Comparison Before and After the Paradigm Shift

Yesterdays and Todays Technique	The Future and New Technique
The human being must adapt to technology.	**Technology is adapted to people.** Technique is so easy to use that the user does not need to know how the technology works.
Many are excluded from society's digital services. For example, those who have poor finances.	No one is excluded from society's digital services.
The individual must adapt to the technology's requirements.	Technics are adapted to the individuals wishes.
People are forced to constantly buy new one devices (HW/SW) as soon as the commercial companies decide. Compulsion to own commercial products.	Nno one is forced to buy any new HW or SW regularly. No one is forced to own anything except their ID card. (Which is also an E-identification).
Must pay subscriptions.	No subscriptions are needed.
Forced to waste time and alignment of people due to poor user interfaces.	Free to use time to what you want.
In the past, it was believed that everyone had to learn technology and programming to keep up with technology development.	Now no one needs to feel forced to learn technology or programming. Everyone can decide how to use their time and how they want to develop their talent.
Forced to learn what authorities and what the commercial companies decides.	Free to do what you are most interested in. Free to decide what to be interested in and what to learn and use time to.
It is inefficient to let all learn the same thing. (Alignment and making people dumber.)	A few experts develop user friendly system. Everyone else can do what they want to do.
People must adopt and be controlled by technology.	Technology is adapted to the human. The human decides over the technology.
Large cost for the user.	**Free** (only an ID-card is needed).

Yesterdays and Todays Technique	The Future and New Technique
The Individuals integrity is violated because the technique is dependent on foreign countries and commercial companies.	High Integrity because no 3rd parties are involved.
Forced to spend time learning user-unfriendly things. **(Some people in power have ej understood that technology should simplify people's lives and free up time.)**	The individual can choose how to use their time for what they are interested in. **Free**time !
"Research shows that our brain can change or even shrink from being constantly connected to mobile phones, tablets and computers. "https://www.svt.se/nyheter/vetenskap/hjarnan-forandras-av-mobilen 2024-08-25 A brain scientist believes that it may be good that the functions that the "prosthetic brain" does for us disappear in the real brain. (That makes the individual more dependent on his/her "prosthetic brain".)	Anyone who wants to can **freely** develop their consciousness, thinking ability and brain without being controlled by any external foreign force.

Benefits Summary:

+ Higher level of privacy.
+ Better economy.
+ Better for the environment.
+ Mor time (free time) for what the individual is interested in.
+ Only one ID-card (which must be 100% independent of foreign and commercial companies) is needed for the user to be able to have full access to the Society's important e-services.
+ A sharing economy is positive for the environment. Noone needs to own anything except an ID-card.
+ Noone has to subscribe to anything if they don't want to. **Save money and the environment.**

A trained system becomes just as easy to use like having a dialogue with a human person.

All needed technology already exists - you just need to put it together.

Expertise makes the welfare society possible, i.e. everyone does what they are best at and you exchange services with each other.

The Humanity can be divided into 2 categories:
1. Those who protect the individual's Integrity and Freedom. **(I)**
-and-
2. Those who believe that everyone must be dependent on foreign countries and commercial companies and be equipped with monitoring equipment. (**QS**)

All Politicians, authorities, ruler, etc,... must decide which category they want to belong to.
The ”I ”category or the ”QS” category ?

9 Proof on that Technology already exists for a Paradigm Shift

9.1 Passport controls

Unmanned Passport Controls which checks biometric data already exists, (ie unmanned ID check).
The passport also works as a ticket at aipports.

9.2 Bank card

Payment and credit cards can be linked to different stores' memberships.

9.3 Voice control

A lot of equipment can understand speech and also translate.

9.4 Japanese IC card

Only one Chip/card can work for many functions and be independent of 3rd parties.
The Japanese IC-cards shows that independence of 3rd party is possible
and that many different functions in one card is possible: for example E-currency, public transport card (that works throughout Japan independent of operator), ID-card, shool card, access card...

Japanese "IC-card"where a single card since long can have the following functions:
+ Shool card,
+ ID card,
+ Public transport card that works throughout the country regardless of operator,
+ E-currency, a General payment/cash card that is independent of 3rd parties.
  (The world's easiest, fastest (0.2s) and most user-friendly payment method).
+ No 3rd parties are involved. (Only the user and the card issuer).
+ The level of integrity is also high because no 3rd parties are involved.

Sweden (and most countries) is probably at least 10 years behind in this development.

This proves that it is possible to have ID, E-leg, Driving license, Public transport card, E-currency, etc in the same Chip/card.
The cards (e.g. Pasmo, Suica) can integrate e.g. E-currency, Leg, school card, access card,
as well as public transport cards (which work throughout Japan regardless of public transport operator).

Originally they were rechargeable public transport cards but today function as
a de facto E-currency of the order of magnitude **100,000,000** users so it is well tested.

It is the world's simplest, fastest (0.2s) and most user-friendly payment method.
The Japanese IC cards are issued by private public transport companies and developed by Sony and Japan Rail. (For example Icoca, Pasmo, Suica,.. etc. cards are compatible with each other).

The speed (0.2s) should be important for traders.

Buying a drink from a vending machine takes about 1s:
1. Press the button for the desired drink (0.1s).
2. Swipe the card over the reader for 0.2s.
3. The gravitational constant limits how quickly the can can fall to the "tray".

For commerce, speed and simplicity should be important (and for the user).
For security reasons, it is prohibited to physicallymanipulate the Japanese IC cards.

9.4.1 Shop in stores without staff and without to need to scan the goods

Example of an AI application - Shop in a store without staff.

With help of AI it is possible to train a system so it is possible to shop in a store without any staff and without scanning the goods.
In this example:
+ a "touch" with the card opens the store.
+ the customer picks up goods without any scanning.
+ the customer can put the goods directly in the bag.
+ the customer pays with the IC-card with a touch (0.2s) on a reader.
A display shows the cost and how much is left in the account.
https://www.youtube.com/watch?v=soQiauXvceo (1:13)
Watch the film (44s):
https://www.youtube.com/watch?v=OS59P5eT7M8 (44s)
The customer pays with an Japanese IC-card. In this case a Suica card (public transport card).

9.5 Japanese Railway Station "Work Spaces"

At Japanese Railway Stations there are "Work Spaces". Yamagata Railway Station in Japan, see above. (Photo: Johan Eneland)

If you don't have any own phone, you can share the phone with others - i.e. use a payphone.

10 Resistance to the New

What resistance can be expected:

¤ Commercial companies are obviously not interested in that people are getting cheaper alternatives.

¤ Thoose that makes money by selling new products to consumers every now and then.

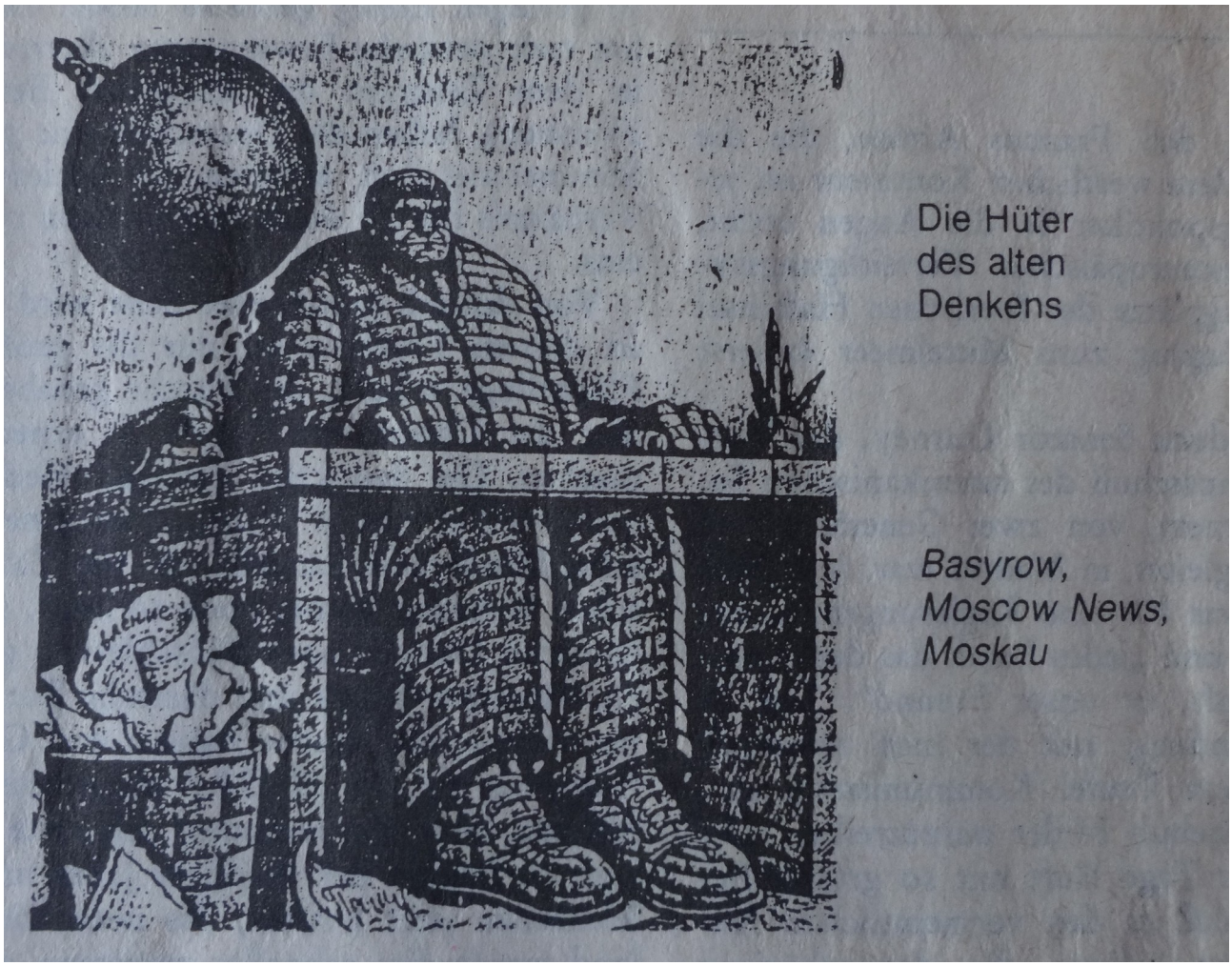
¤ Thoose that collect information about people: eg commercial companies, various authorities and countries.

¤ Thoose that have connections to commercial companies.

¤ Thoose who want to be able to monitor all citizens.

¤ Thoose who are mentally stuck in what was new about 30 years ago and cannot think new.

¤ The “Not Invented Here” syndrome.



It is a variant of the ”Stockholm syndrome” that people defend the technology they use and those who control them.

11 History

Document sent to:

Date	To Whom	Various /Response
2020-10-28	The Liberals	Got positive feedback from Marcus Nilsson
2020-10-28	MSB	"Sent for archiving". MSB forwarded to PTS
2021-01-04	Simon	
2021-07-15	B-E D (Ericsson)	
2021-01-28	SR Disconnected	
2021-02-24	Professor Niclas Arvidsson KTH	
2021-02-24	Stefan Johansson Technologie doctor and affiliated faculty at KTH	Positive response—suggested appropriate as ”X-Job”
2021-03-29	Jonas Söderström information architect and senior consultant, Author.	
2021-04-29	”Minister of IT” Anders Ygeman	
2021-04-29	All 8 parties.	
2021-04-29	+ misc media.	
2022-06-29	Tax Agency	
2022-06-29	SR-The wallet	
2022-06-29	Radio Skaraborg	
2022-07-28	Minister of Justice Morgan Johansson, National Confederation of the Visually Impaired, (and 6 SR Local stations)	
2022-08-09	Digitization Minister Khashayar Farmanbar (and 8 parliamentary parties)	
2022-10-05	Nord. Epst. (SR)	
2022-12-02	The journal "Ny Teknik"	
2022-12-03	Vetenskap svt.se vet. sverigesradio.se Ntord & Epst.	
2024-01-18	SR B & S	
2024-11-20	Primeminister Ulf Kristersson	
2024-11-27	Integritetsskyddsmyndigheten (The Integrity Protection Authory)	IMY-2024-16479
2024-12-03	Högskolan i Skövde (HiS) (College / university in Skövde)	Case 497685
2024-12-04	Bahnhof	
2025-01-22	The Swedish Tax Agency	
2025-02-19	The Integrity Expert Rob Braxman	
2025-05-27	Världen Idag	